Davos Leaders Sing Praises of GMO Soil Microbes, But Critics Warn of 'Irreparable Consequences'

Scientists at the World Economic Forum hosted potentially empowered microbes as the future of sustainable and climate-friendly agriculture, but watchdogs groups warned that the genetic modifications included risks to biodiversity, human health and the environment that could be irreversible and irreparable.

By Brenda Baletti, Ph.D.

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The topic of "synthetic biology" — the science of reengineering living organisms to have "new abilities" geared toward solving problems in fields ranging from medicine to manufacturing to agriculture — came up during several sessions held last week at the World Economic Forum (WEF) meetings in Davos, Switzerland.

Synthetic biology is the basis of the so-called "biotonomy" that was addressed at the U.N. and set to grow globally to over $30 trillion in the next two decades, according to Forbes.

Bioprobiotics, a subset of synthetic biology, [1] was a hot topic at the WEF, with excitement in its touch-and-see potential to drive that growth.

Bioprobiotics include everything from [2] to [3] and [4] to [5] and [6] to [7] and [8] to [9] and [10] to [11] and [12] to [13] and [14] to [15] and [16] to [17] and [18] to [19] and [20] to [21] and